

0570
1119

OIPE

#3

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/784,077

DATE: 12/17/2001
 TIME: 14:45:34

Input Set : N:\Crf3\RULE60\09784077.txt
 Output Set: N:\CRF3\12172001\I784077.raw

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: NATSUKA, SHUNJI
 7 GERSTEN, KEVIN M.
 8 LOWE, JOHN B.

10 (ii) TITLE OF INVENTION: MURINE ALPHA (1,3) FUCOSYLTRANSFERASE
 11 FUC-TVII, DNA ENCODING THE SAME, METHOD FOR PREPARING THE
 12 SAME, ANTIBODIES RECOGNIZING THE SAME, IMMUNOASSAYS FOR
 13 DETECTING THE SAME, PLASMIDS CONTAINING SUCH DNA

15 (iii) NUMBER OF SEQUENCES: 4

17 (iv) CORRESPONDENCE ADDRESS:

18 (A) ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
 19 P.C.

20 (B) STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400

21 (C) CITY: ARLINGTON

22 (D) STATE: VA

23 (E) COUNTRY: USA

24 (F) ZIP: 22202

26 (v) COMPUTER READABLE FORM:

27 (A) MEDIUM TYPE: Floppy disk

28 (B) COMPUTER: IBM PC compatible

29 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

30 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

32 (vi) CURRENT APPLICATION DATA:

C--> 33 (A) APPLICATION NUMBER: US/09/784,077

C--> 34 (B) FILING DATE: 16-FEB-2001

35 (C) CLASSIFICATION:

37 (vii) PRIOR APPLICATION DATA:

38 (A) APPLICATION NUMBER: US 08/613,098

39 (B) FILING DATE: 08-MAR-1996

44 (viii) ATTORNEY/AGENT INFORMATION:

45 (A) NAME: LAVALLEYE, JEAN-PAUL

46 (B) REGISTRATION NUMBER: 31,451

47 (C) REFERENCE/DOCKET NUMBER: 2363-114-55

49 (ix) TELECOMMUNICATION INFORMATION:

50 (A) TELEPHONE: 703-413-3000

51 (B) TELEFAX: 703-413-2220

54 (2) INFORMATION FOR SEQ ID NO: 1:

56 (i) SEQUENCE CHARACTERISTICS:

57 (A) LENGTH: 3594 base pairs

58 (B) TYPE: nucleic acid

59 (C) STRANDEDNESS: double

60 (D) TOPOLOGY: linear

62 (ii) MOLECULE TYPE: cDNA

67 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

69 ACAAACAGGA AGGACAGCAG GCTCTGGCAG CCAGAACGCT GTGGCCCCAA GCTGGCAGGA

71 TGGCCCCCTT CCTGCAGGTC CCCCCACAGCC TTCTGGGTTC CTGACACGAG AGAAGAGGTG

60

120

ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/784,077

DATE: 12/17/2001

TIME: 14:45:34

Input Set : N:\Crf3\RULE60\09784077.txt
 Output Set: N:\CRF3\12172001\I784077.raw

73	GGCGGGGTG	AAGTGAACTC	TGAAGCCAAA	ATGTGACTCT	CCTGGGGTCA	CCAGCTTGGG	180
75	GAGAGGTGAA	GAAAGATGCC	GGGGCGGAAA	CAAAGGGCA	GATATCACTA	TGGTTATCTT	240
77	ACTAACGCACA	GAGTAACCTGA	AAAAGCAAGG	GTACCGCTGC	CCACCTCGTG	CCCACCTTAC	300
79	GTTATACCTC	AAACCAGCTA	GATAGTTCT	GATGGCACCC	ATACCCTCCC	TTCCCCTTA	360
81	GGCATTGCGC	AAGCTCTCCA	CCACAATCTG	GAAGTTATAC	CCTGCGAGGG	GATGGGCAGG	420
83	GCACTTCTGA	GGTGCCAATC	AGCCTGCACT	CGCCTCTGCC	CTGGCCATGG	CACTGCTGTC	480
85	AGTTTCTTGG	TACCTGTCTC	AACAGCAGCC	TTGTACCGTG	AGACTATGGC	TGGCGGTGGG	540
87	GGTGGGGGCA	GGAATCCTAG	AAGCACAGGA	GTGACATAGG	GTCGGGTGGG	GCAGAGCGAA	600
89	GTGTAGGAGG	TGATCCCCAA	AGGGATGCTG	GGGACGATCT	GGCCAACACT	GTCCTCCCAT	660
91	TCAAAACTCC	CAGTCTGGAG	CTCTGGGACA	TGGACAAGCC	AGGCCTGCTA	TTCTCCATAC	720
93	AGGGCTCCAT	AGTGTCTGGC	TCAGCAGAGT	GGGGGATCTG	GTGGGGATGG	AGGAAGCTTA	780
95	GCTAAAAGCT	TTGTATAGGC	TGAAGCTCTG	AGTGAACCTG	CTGGGCCACC	CTACCCCTGGT	840
97	CTGGGCTGGG	TCATTGCATC	CCAGAGATTGG	AAGGCTTGGT	GAGATGGAGA	GGAACCTTGG	900
99	CTACAAAGCTA	TAGCTTGCC	CACCAGAGCC	TGCTGGAGGG	GAATCAAACA	AGCCTGGACC	960
101	TGAGGCTGGG	ACTAGCTTTC	CTGTTCTGG	AGTGGATGCC	AAACCCCTGC	CCACCAGCCT	1020
103	GCCTGTCCAC	GCCAGGGACA	CACAGACTCC	TTCCCTTTCC	AGACTGGAAA	GCCCCCTCCT	1080
105	GGGAGAGCAG	GAAGGAAGCA	ACCTGCAACT	CTTCCAGCCC	TGGACCTTGG	GCTGAACCTA	1140
107	CAGTTCAAGG	TTTGTATGCT	CACAGGTCTT	GGCAGGGAAA	GATAAGAACATC	CCCAGGGCAC	1200
109	CCTCCCCCCC	GCCCCCCCAGT	CCACTGCAGG	TAGCTCCTGG	GTCTGCCCTT	CAGGGCAAGT	1260
111	GCTGACGCTC	CATCAGACTG	TGATGGGGCC	CTTTCTGAG	GATGACAATT	CTGAGAACAA	1320
113	GGCATTTC	TAGAGGTGGC	AGAACAGCAT	TTTGTGATGC	CCGAGGATCT	GGGAGCACAG	1380
115	GTCCAGCTTA	ATGAGGGATT	GGAGGAAGTG	GGTATCATCA	TTACAGGGAG	GGGCCTCTGT	1440
117	GGCCTCTGG	GAAAATGCAG	TTGCTCTCTT	TGGGTGGCCT	GGGGTTGTGT	GGTGGGCAGA	1500
119	GGACGGAGGT	GCTCATTGGG	GGAAGGGATC	ACTTCTGCTC	AGAGTGCCTG	CAAGGGCCTT	1560
121	TCCTTTCCCT	GAAGGCAAGC	AGGCCTCCCTC	CTCCCTCCTCT	TCCTCCTTCT	CCTCTTCCTC	1620
123	CTCTTTCTCC	ATATGCCCTAG	CTGGTCATT	CTAGGGACCA	GCATGGTTGG	GAAGGGGCC	1680
125	TTGTCTTGGC	CTTCCTCTTG	TCTCAATTCC	CTCTTTGAGC	AGAAGACGGG	GTGGGTGGGG	1740
127	TAGGATTGGA	TAGTGGTTGA	TGCCAAAGAT	TGAAGGGGTA	GGCGGGGCA	GAAGTGGGAA	1800
129	GGTCCCTGGC	TTCCCTCACCT	TGGTAGATGG	TGAGGAGCCC	CAGAGGTTGA	GCTGAGCAGC	1860
131	AGCTGTGATT	TCAGGGTGC	TCTGTTGGAG	AGGCTGCTGT	GATTTGAAAA	TCTTCTTTCC	1920
133	TTGGTACAA	TTCCAGAAGG	CTCCAGATGA	ATTGTATTGG	TGAGTGCCTG	GCCCTTAAGC	1980
135	AGTCCCAGCT	GGGGATGATG	GGGATTATG	GGTGTCCCTG	AGCCTAGGGT	GACAGGGCCT	2040
137	CTCCTTTTTT	TTTATTCTG	CTTCAGGGTA	CCACCCACC	AGGAGGCTGC	GGGCCTGGGG	2100
139	CGGCCTAGCT	GGAGGAGCAA	CATTGATGGT	AATTGGTTT	TTCTGGCTGT	GGGGATCAGC	2160
141	TCCTGGAAGT	GCCCCCTGTG	CTCAGTCCAC	ACTCACCATC	CTTATCTGGC	ACTGGCCTTT	2220
143	CACCAACCGG	CCGCCAGAGC	TACCTGGTGA	CACCTGCACT	CGCTATGGCA	TGGCCAGCTG	2280
145	CCGTCTGAGT	GCTAACCGGA	GCCTGCTAGC	CAGTGCTGAT	GCTGTGGTCT	TCCACCAACCG	2340
147	TGAGCTGCAA	ACCCGGAAT	CTCTCCTACC	CCTGACCAAG	AGGCCACACG	GACAGCCTG	2400
149	GGTCTGGGCC	TCCATGGAAT	CGCCCAGTAA	TACCCATGGT	CTCCATCGCT	TCCGGGGCAT	2460
151	CTTCAACTGG	GTGCTGAGCT	ATCGGCGTGA	TTCAGATATC	TTTGTACCC	ACGGTCGCTT	2520
153	GGAGCCTCTC	TCTGGGCCCA	CATCCCCACT	ACCGGCCAAA	AGCAGGATGG	CTGCCCTGGGT	2580
155	GATCAGCAAT	TTCCAGGAGC	GGCAGCAGCG	TGCAAAGCTG	TACCGGCAGC	TGGCCCTCTA	2640
157	TCTGCAGGTG	GATGTGTTCG	GTCGCGCCAG	CGGACGGCCC	CTATGCGCTA	ATTGTCTGCT	2700
159	GCCCCACTTG	GCCCCGTACC	GTCTCTACCT	GGCCTTGAG	AACTCACAGC	ATCGGGACTA	2760
161	CATCACTGAG	AAGTCTGGC	GCAATGCCCT	GGCGGCTGGT	GCTGTACCCG	TGGCGCTGGG	2820
163	ACCTCCTCGG	GCCACCTACG	AGGCTTTGT	GCCACCAAGAT	GCCTTGTAC	ACGTGGACGA	2880
165	CTTCAGCTCT	GCCCCGTGAAC	TGGCTGTC	CCTCGTCAGC	ATGAATGAGA	GTCGTTATCG	2940
167	TGGCTTCTT	GCTTGGCGAG	ACCGGCTCCG	TGTGCGCTC	CTGGGTGACT	GGAGGGAGCG	3000
169	CTTCTGCACC	ATCTGTGCC	GCTACCCTA	CTTGCCCCGC	AGCCAGGTCT	ATGAAGACCT	3060

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/784,077

DATE: 12/17/2001
TIME: 14:45:34

Input Set : N:\Crf3\RULE60\09784077.txt
Output Set: N:\CRF3\12172001\I784077.raw

171	TGAAAGCTGG	TTCCAGGCTT	GAACTCCTGC	TGCTGGGAGA	GGCTGGATGG	GTGGGAGACT	3120
173	GATGTTGAAA	CCAAAGAGCT	GGGCATCCAG	GCTTTGGTC	ACCATGGCAC	TACCCCAAGG	3180
175	CTTTCCCTGT	TCAGTGAGCA	GGAATTCAAGG	ATATAAGGAG	AAGACTGGGC	TGAGATACCC	3240
177	TGGTGGGCTT	TAGAGTAGGG	GCCCAGGATA	AGAGACAATG	AATTAATGAG	GAGCATATGG	3300
179	GGAAGGTGGC	TGAGGGTCCC	TGACTTACCT	TGACCCATGG	CTGAAGGCTC	CATGCCCATG	3360
181	GCTGGAGCTG	GGAC CCTACA	CTTCTATAGT	CAAGGTGCTT	AGCCTCAAGG	TTGCAGATGC	3420
183	ACCCTCTAGT	ACTCTGGGTG	CAGACTGTAC	ACTGGGCGCA	GGGGGTTGTG	GAAGGACAGT	3480
185	GCAGATGATT	CTGGGCTTT	GACACCACAG	TTCCCCCAGG	GAAAGAGGCA	CTACTAATAA	3540
187	AAACACTGAC	AGAAATCTCC	TGGTCAAGTC	TGTTAGGCAG	CAGAGCTCGA	ATTC	3594
189	(2) INFORMATION FOR SEQ ID NO: 2:						
191	(i) SEQUENCE CHARACTERISTICS:						
192	(A) LENGTH: 393 amino acids						
193	(B) TYPE: amino acid						
194	(C) STRANDEDNESS: single						
195	(D) TOPOLOGY: linear						
197	(ii) MOLECULE TYPE: protein						
202	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:						
204	Met Pro Thr Pro Cys Pro Pro Ala Cys Leu Ser Thr Pro Gly Thr His						
205	1	5	10	15			
207	Arg Leu Leu Pro Phe Pro Asp Trp Lys Ala Pro Ser Trp Glu Ser Arg						
208	20	25	30				
210	Lys Glu Ala Thr Cys Asn Ser Ser Pro Gly Pro Trp Ala Glu Pro						
211	35	40	45				
213	Thr Val Gln Met Asn Cys Ile Gly Tyr His Pro Thr Arg Arg Leu Arg						
214	50	55	60				
216	Ala Trp Gly Gly Leu Ala Gly Gly Ala Thr Phe Met Val Ile Trp Phe						
217	65	70	75	80			
219	Phe Trp Leu Trp Gly Ser Ala Pro Gly Ser Ala Pro Val Pro Gln Ser						
220	85	90	95				
222	Thr Leu Thr Ile Leu Ile Trp His Trp Pro Phe Thr Asn Arg Pro Pro						
223	100	105	110				
225	Glu Leu Pro Gly Asp Thr Cys Thr Arg Tyr Gly Met Ala Ser Cys Arg						
226	115	120	125				
228	Leu Ser Ala Asn Arg Ser Leu Leu Ala Ser Ala Asp Ala Val Val Phe						
229	130	135	140				
231	His His Arg Glu Leu Gln Thr Arg Gln Ser Leu Leu Pro Leu Asp Gln						
232	145	150	155	160			
234	Arg Pro His Gly Gln Pro Trp Val Trp Ala Ser Met Glu Ser Pro Ser						
235	165	170	175				
237	Asn Thr His Gly Leu His Arg Phe Arg Gly Ile Phe Asn Trp Val Leu						
238	180	185	190				
240	Ser Tyr Arg Arg Asp Ser Asp Ile Phe Val Pro Tyr Gly Arg Leu Glu						
241	195	200	205				
243	Pro Leu Ser Gly Pro Thr Ser Pro Leu Pro Ala Lys Ser Arg Met Ala						
244	210	215	220				
246	Ala Trp Val Ile Ser Asn Phe Gln Glu Arg Gln Gln Arg Ala Lys Leu						
247	225	230	235	240			
249	Tyr Arg Gln Leu Ala Pro His Leu Gln Val Asp Val Phe Gly Arg Ala						
250	245	250	255				

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/784,077

DATE: 12/17/2001
TIME: 14:45:34

Input Set : N:\Crf3\RULE60\09784077.txt
Output Set: N:\CRF3\12172001\I784077.raw

252 Ser Gly Arg Pro Leu Cys Ala Asn Cys Leu Leu Pro Thr Leu Ala Arg
253 260 265 270
255 Tyr Arg Phe Tyr Leu Ala Phe Glu Asn Ser Gln His Arg Asp Tyr Ile
256 275 280 285
258 Thr Glu Lys Phe Trp Arg Asn Ala Leu Ala Ala Gly Ala Val Pro Val
259 290 295 300
261 Ala Leu Gly Pro Pro Arg Ala Thr Tyr Glu Ala Phe Val Pro Pro Asp
262 305 310 315 320
264 Ala Phe Val His Val Asp Asp Phe Ser Ser Ala Arg Glu Leu Ala Val
265 325 330 335
267 Phe Leu Val Ser Met Asn Glu Ser Arg Tyr Arg Gly Phe Phe Ala Trp
268 340 345 350
270 Arg Asp Arg Leu Arg Val Arg Leu Leu Gly Asp Trp Arg Glu Arg Phe
271 355 360 365
273 Cys Thr Ile Cys Ala Arg Tyr Pro Tyr Leu Pro Arg Ser Gln Val Tyr
274 370 375 380
276 Glu Asp Leu Glu Ser Trp Phe Gln Ala
277 385 390

279 (2) INFORMATION FOR SEQ ID NO: 3:

281 (i) SEQUENCE CHARACTERISTICS:

282 (A) LENGTH: 41 base pairs
283 (B) TYPE: nucleic acid
284 (C) STRANDEDNESS: single
285 (D) TOPOLOGY: linear

287 (ii) MOLECULE TYPE: other nucleic acid

288 (A) DESCRIPTION: /desc = "SYNTHETIC PRIMER"

293 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

295 GCGCGGATCC CACCATCCTT ATCTGGCACT GGCCTTCAC C

41

297 (2) INFORMATION FOR SEQ ID NO: 4:

299 (i) SEQUENCE CHARACTERISTICS:

300 (A) LENGTH: 44 base pairs
301 (B) TYPE: nucleic acid
302 (C) STRANDEDNESS: single
303 (D) TOPOLOGY: linear

305 (ii) MOLECULE TYPE: other nucleic acid

306 (A) DESCRIPTION: /desc = "SYNTHETIC PRIMER"

311 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

313 GCGCGGATCC AGTTCAAGCC TGGAACCGAGC TTTCAAGGTC CTTC

44

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/784,077

DATE: 12/17/2001

TIME: 14:45:35

Input Set : N:\Crf3\RULE60\09784077.txt

Output Set: N:\CRF3\12172001\I784077.raw

L:33 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:34 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]